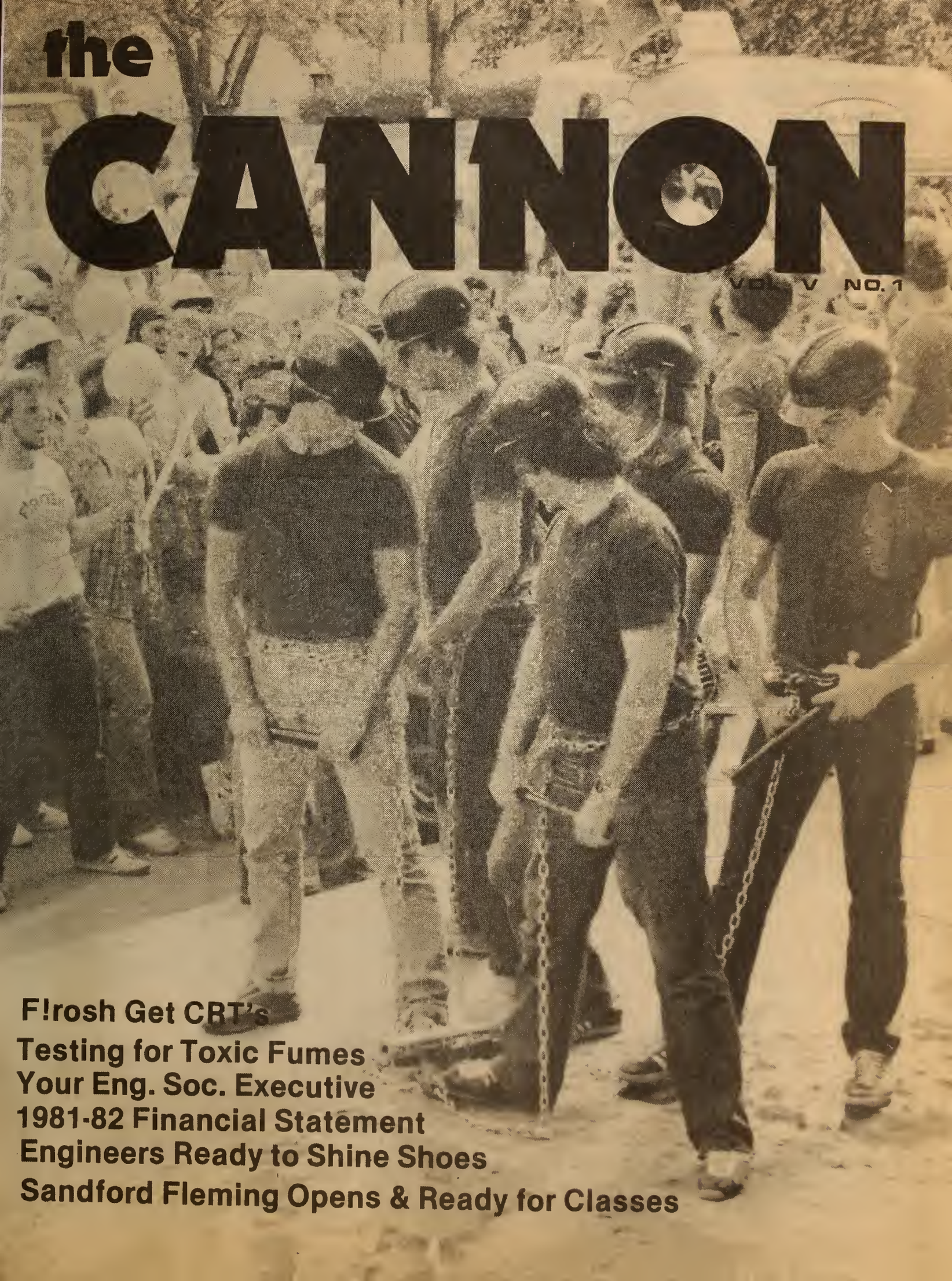
the CANNON

VOL. V NO. 1



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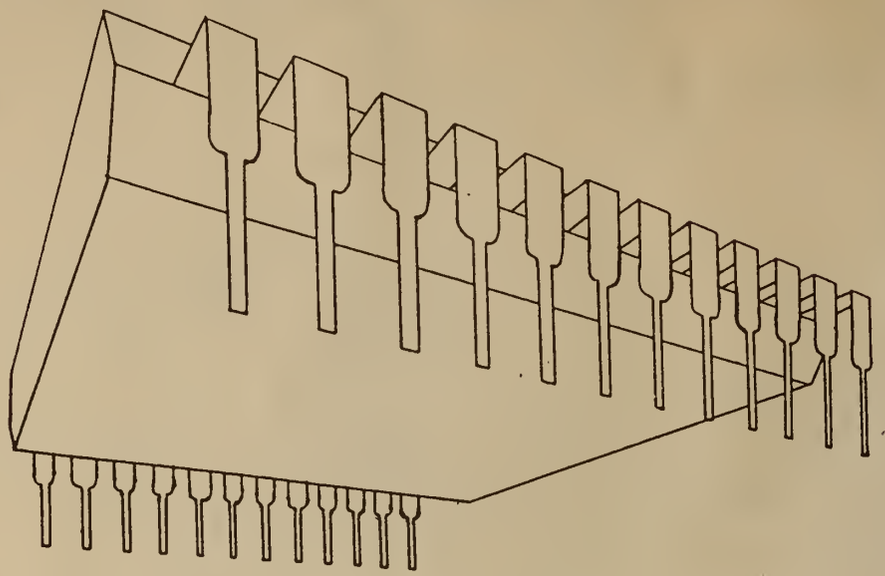

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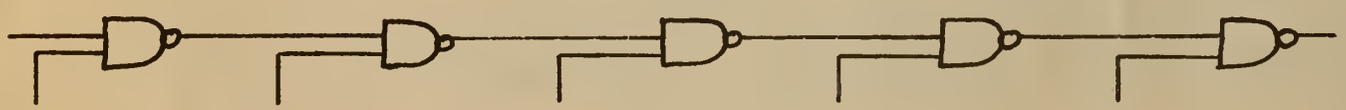

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THE CANNON is a publication of the University of Toronto Engineering Society. It is published monthly to announce Eng. Soc. events, discuss Faculty and University matters, and present technical information of interest to Engineering undergraduates. Subscriptions are available, call Ella at 978-2917. Anyone interested in helping with THE CANNON is most welcome.

THE CANNON encourages submissions; please type or write legibly. Deadline for articles is one week before publication date, notices and letters by 5:00 p.m. the Friday prior to publication. Comments on THE CANNON or articles appearing in it are appreciated. The editors reserve the right to edit letters for brevity.

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Opening Ceremony for Sandford Fleming Building
After five years of renovation the Sandford Fleming building officially reopened last June. The Faculty has now moved in and is ready for the onslaught of students.
page 5

Fighting Cystic Fibrosis
Every year students hit the streets of Toronto and shine shoes with the proceeds going to CCFF and this year is no different.
page 7

No More Cards!
U. of T. is keeping pace with technology by replacing batch reading with computer terminals. F!rosh are the lucky guinea pigs.
page 8

Keeping the Workplace Safe.
While students are lazily lying in the sun researchers in the Faculty are working on a device which tests the industrial environment for toxic fumes.
page 10

The Men and Women Behind It All
Little did you know but there are five industrious students who are the guiding force behind that amazing machine — the Eng. Soc. Here in an illuminating expose the people and their responsibilities.
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The Auditor's Report
No complaints will be heard until you have read this.
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Editor's Notes

Well the first issue of the CANNON newsmagazine is ready to go and all I can say is - how the hell does Lou Grant do this every day!? Actually I know the answer to this rhetorical question. It *is* alot of work, but the rewards are more than worth it. Indeed, this is true for the four years that we will all spend here in the Faculty of Engineering at the University of Toronto.

For you f!rosh wandering around with your jaw down to your naval and your naked yellow hardhats remember those wise old words of wisdom: Work Hard and Play Hard! Although you may be overwhelmed by the information overload you receive the first few days at SKULE it is important to keep in mind that there is something for everybody here at the U. of T. Wonderland. You can participate in almost any sport under the sun, whether playing on engineering teams or joining any clubs or lessons at the Athletic Complex. The BFC (the what?) is always looking for courageous young f!rosh to go where no engineer has gone before and the Bnad needs people who can make noise. There are pubs to go to, "frats" to burn down, football games to cheer at, boat races and boat cruises, bed races and Shinerama, Oktoberfest and Skule Night. And for those who are absolutely off the wall and totally into having an amazing time there is.....ENG COM!! This is the group who give you such wonderful things as the Calendar, the Handbook, the Yearbook, the Toike Oike and, of course the CANNON.

This year the Cannon has changed from tabloid style to a newsmagazine. In doing this it will be unique on campus and at the same time allows everyone to read it in class without any Profs noticing. Now what more could you want?

The Cannon is the engineering publication which keeps engineering students abreast of academic and technological news here at the University and at large. To this end I encourage you to write articles or write to us about articles you have read. It is only in this way that we can provide you with the publication you want.

Though I have rambled on incessantly about the good times to be had it must not be forgotten that all of us have come here to become engineers. At this university it is possible to gain one of the best engineering educations in Canada, but this does not materialize without some dedication and perserverance. Course work can be very dull or very interesting depending, in many cases, on your approach to the subjects. Do not forget that professors do many things other than teach you. All of them are involved in some kind of research and that research might interest you. Take advantage of everything that is here,you will never regret it.

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Gutted by Fire

Sandford Fleming Reopens

Louie Wilson
Eng Sci 8T5

On Saturday, June 12, the formal opening of the Sandford Fleming Building took place. The attendance was good on the part of the engineering staff, alumni and students. We were also honoured to have distinguished guests present including members of the Sandford Fleming family.

Sir Sandford Fleming was born at Kirkcaldy, Scotland in 1827. He emigrated to Canada in 1845 where, from 1867 to 1880, he was the chief engineer of the Dominion Government. While he held this position the Intercolonial railway and much of the Canadian Pacific was constructed.

After his retirement in 1880, he devoted himself to problems such as the unification of time reckoning throughout the world. This is perhaps one of Sir Sandford Fleming's most noteworthy achievements: the development of standard time. Sir Sandford Fleming was also actively involved in politics. He died in Halifax, Nova Scotia in 1915.

In 1977, the Sandford Fleming Building was destroyed in a fire. This was a great loss to the University of Toronto, and in particular the Faculty of Applied Science and Engineering. Although the new building was not quite completed for it's formal opening ceremony, it showed to be a magnificent building indeed. With a spiral staircase splitting the engineering library into two spacious levels, a new acoustics lab for the aerospace programme and a new civil engineering structures lab, the building promises to provide excellent facilities for the use of engineering students.

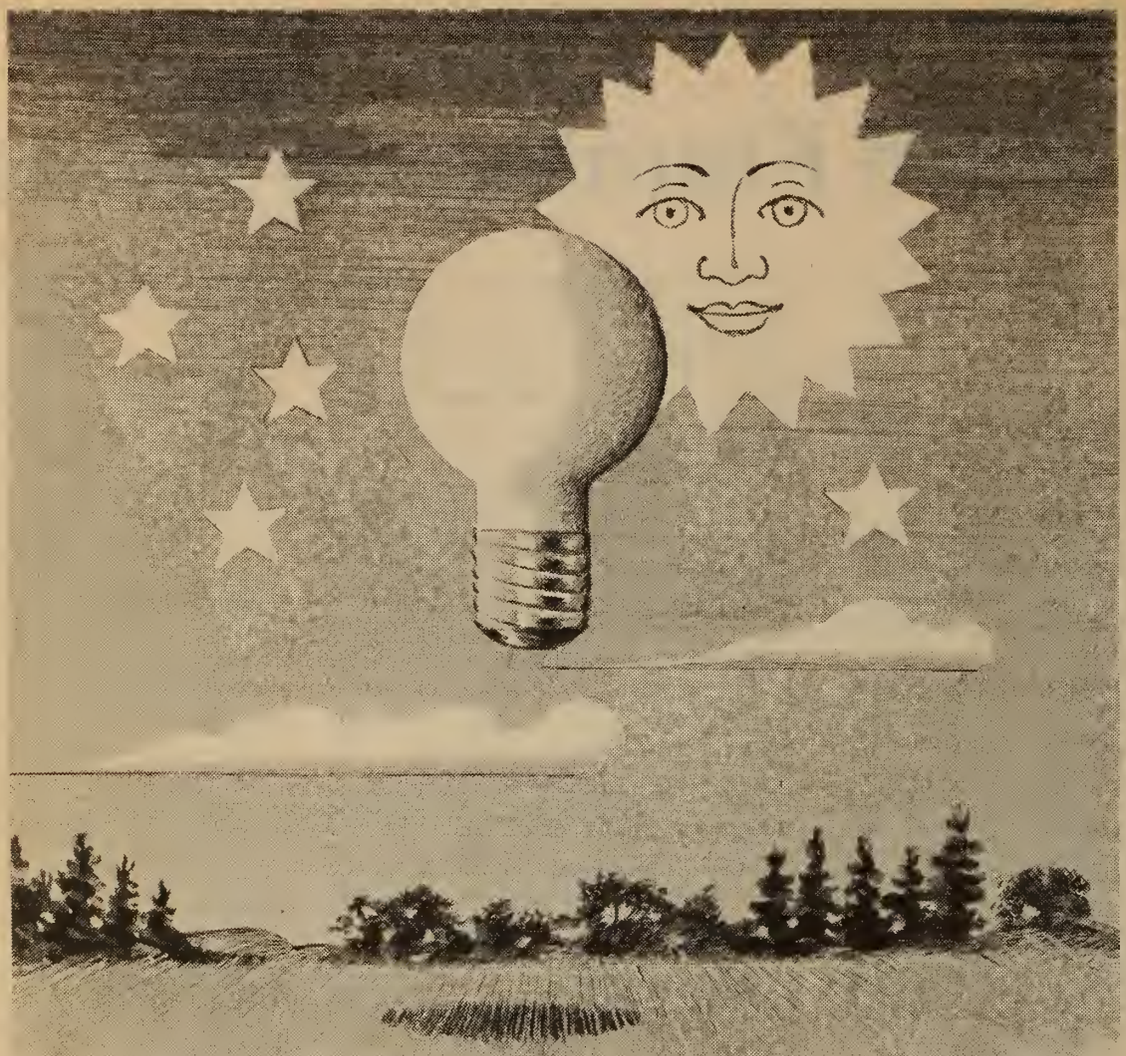
The opening remarks at the ceremony were made by Dean Slemon. This was followed with remarks by President Ham and an address be the Honourable Bett Stephenson. An address was then made by Mr. Gordon McKay on the commemoration of the magnetic observatory. The first magnetic observatory being set up in 1839 by Captain Riddell in Canada. A very generous contribution of 10,000 dollars was then made to the Sanford Fleming building by Mr. McKay.

Mr. F.K. Doty, the alumni President, then made the dedication of the Hall of Distinction to the Sandford Fleming building. The Hall of Distinction is located on the third floor. It consists of showcases, each of which honours a distinguished engineer who has contributed much to the profession. Amoung those distinguished engineers is Gordon Mitchell, who is an outstanding Canadian Civil engineer. He provided the leadership for the harnessing of water power to produce electricity in Ontario. There is also a show case for Ralph Kingsley Iler, who was the first to receive a Ph.D. degree in engineering from U. of T. These are only two of the thirty engineers honoured in the Hall of Distinction. The response to the dedication was made by Mr. W. Boyd, a member of the Hall of Distinction. Mr. Boyd shared with us a bit of his philosophy towards education in engineering: "Do what you really want to do" But most of all he meant you should enjoy what you are doing.

Following was the transfer of the Key ceremony. Those participating were Mr. J. Villeneuve, the contractor; Mr. Boyce, the architect and Mr. Wardrop, the chairman of the Governing Council. Finally tours were conducted through the building.

This beautiful building will stand as a landmark to honour a man who contributed greatly to the engineering profession. A bronze bust of Sir Sandford Fleming presented by the Royal Canadian Institute stands in the main entrance and shows the pride with which the alumni, staff and students have for the engineering profession and the faculty at the University of Toronto.

Dean Slemon speaking at SF opening



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Fight for Cystic Fibrosis

U of T Shines Again

Ira Rotenberg
Ind 8T3

Students from all over the university are geared up and ready for the largest student sponsored fund-raising drive called SHINERAMA. On Saturday Sept. 18th students from every college and faculty will hit the streets of Toronto, armed with shoe polish and brushes, to shine shoes to help fight Cystic Fibrosis. To mark Shinerama's fifteenth aniversary at this campus, Shinerama has been expanded into a week long format with the hopes of increasing student participation. Events and Activities have been planned so as to integrate the student's need of having a good time and the rewardable experience of serving the community.

Cystic Fibrosis (CF) is recognized as the most incurable common genetic disease of children. Among diseases, it is the number one killer of infants and most who are afflicted with CF never live long enough to see a university degree. Cystic Fibrosis mainly attacks the respiratory and digestive systems with most deaths resulting from pulmonary failure. Large amounts of thick mucus, produced by the body due to a genetic defect, inhibit proper functioning of the lungs and digestive glands. This provides an environment that is conducive to the development of infection which damages the lungs, heart and other vital organs.

In Canada today, one in twenty people are carriers of this fatal disease. Unfortunately there is no medical way to diagnose a carrier and thus, control of the growth of the disease is not possible. One in eighteen hundred are chronically suffering from CF with average life spans of twenty two. Progress in the fight against CF has been very successfull over the past twenty years with Canada being the leader in research of CF with co-ordinated programs across the country.

Shinerama was first run twenty five years ago and today the campaign involves 42 universities and colleges across Canada involving some 15,000 students. In 1964 Shinerama was integrated with the Canadian Cystic Fibrosis foundation with the hopes of increasing public awareness and to raise funds for research below the corporate level. Today, the fund-raising drive accounts for approx. 6 percent of the total 3.3 million dollars raised for research. Last year approx. one million was allocated to programs at the University of Toronto, some of these programs coordinated with the Hospital for Sick Children.

Statistically, the University of Toronto, due to it's size and resources, should have the top campaign in the country. Over the past few years we have fallen from being leaders in serving the community. There is no real valid reason for it and Shinerama Co-Directors, Geraldine Cullen and Ira Rotenberg, are hoping that this will change this year. Engineers and Nurses have always been tops with spirit and participation in university events. There really is no better way to serve than to save a child's life. Every donation received on Shinerama Day will guarantee that some children suffering from CF will live long enough to go to University as you and I do.

Shinerama Day starts with a free breakfast at 7:30am in the Sandford Fleming cafeteria. Shiners will be sent out from the Fleming at 9:00am to shine shoes till about 4:00 and then return to a celebration barbeque at 5:00pm and a Shinerama Dance at 8:00pm. Awards will be given out at that time to the top Shiners.

All events promise to be a lot of fun. Your participation is expected so come on out and help fight Cystic Fibrosis.

Premier Davis Gets a Shoe Shine

Computing Services

From Cards to CRTs

Gus Rinella
MMS 8T5

In the beginning, there was batch processing. But batch involved the sacrifice of many trees to produce cards which were then punched and fed into tempermental card readers. If all went well (slowly, if at all) the computer would digest those cards and spit out yet more paper at the other end. This would be met with the cries and shrieks of those wretched souls that misplaced a semicolon or had blasphemously punched something in column five. They would then be damned to trying to fish the offending card out of the huge deck and repeating the process.

Not to fear, however, the gurus a UTCS (University of Toronto Computing Services to mortals) saw the lost masses and took pity. They proclaimed, "Let there be video terminals!" and there was VIVA. VIVA was created to make access to the computer easier for the student and to reduce the paper waste involved in the keypunching process. Both goals were to be achieved by using state of the art student video terminals. It was never intended to be a research project; it was just to make the students lives a little easier.

VIVA was conceived about four years ago and was introduced about a year later. The system then consisted of a VT100 video display, a LSI II/2 microcomputer and five inch floppy disc to save your work on. The components were all off the shelf. The only wiring done here at U of T was to hook up a Z80 microprocessor chip to drive the five inch floppy. The system was improved a little over a year ago by installing a ISI II/23 microcomputer and an eight inch floppy disc. In both versions the software was developed almost entirely at the University of Toronto. The software supported full screen editing of text and was easy to use being menu-driven. (For those unfamiliar with menus, they are very similar to restaurant menus. A numbered list of options such as creating a file, retrieving a file, editing a file, etc. appears and all the user has to do is enter the number of the option rather than a series of commands.) The software would submit programs in any language that is available on HSJS(High Speed Job Stream) to the remote IBM mainframe computer. The VIVA-IBM interaction was slow at best, so the student had the option of doing the program in SP/A and running it locally, then asking for a printout only when it worked.

From the beginning, VIVA was too small in scale to help ease the backlog on the keypuncher. Access was usually restricted to first year classes of the right size. However, even these classes would book the eight terminals solid just before assignments were due and leave them virtually unused during classes (for obvious reasons). First year students were selected because they were the least likely to have been biased by using cards prior to entering the University. Those using the VIVA system would complain while using it but virtually all would prefer it to cards

Last spring, a separate project, LIBRA, started up at Robarts Library, Erindale and Scarborough. The LIBRA system strongly resembles the VIVA terminal with the exception of the local disk drive. In LIBRA, the user would logon (enter the system), the files that had been stored would be retrieved from the remote, large capacity, hard discs, the student then could revise the files or create new ones. The difference between VIVA and LIBRA, for the use, appears at the point at which the program is submitted (LIBRA has no local execution capability). In LIBRA when the job is submitted it is processed and sent to the line printer, the file is saved on the remote hard discs and the user is automatically logged off. In VIVA the program is run and sent to the line printer, but the user decides when to log off and when to save the file on the local floppy disc. The VIVA system requires the user to back up their own discs whereas the LIBRA user has no disc to carry, lose or misplace. The LIBRA files are backed up nightly on hard discs or may tape. One must note that there have been head crashes on the big hard discs with many users' file destroyed - but UTCS consoles us that it would be only that day's work. Pray that it doesn't crash the day before the program is due. With no personal discs, LIBRA also must allot a quota of storage on the computer.

The software for LIBRA was mostly supplied. To the user, the systems appear similar: both have full screen editors, on line help tutorials and menu-driven and fill-in the blank type options. The difference was in the hardware the downtown and Erindale would run on their own DEC VAX780's and Scarborough had a VAX750 computer. The machines were connected so that if you lived in Scarborough but had classes downtown your files could be brought across the network so you could work at home.

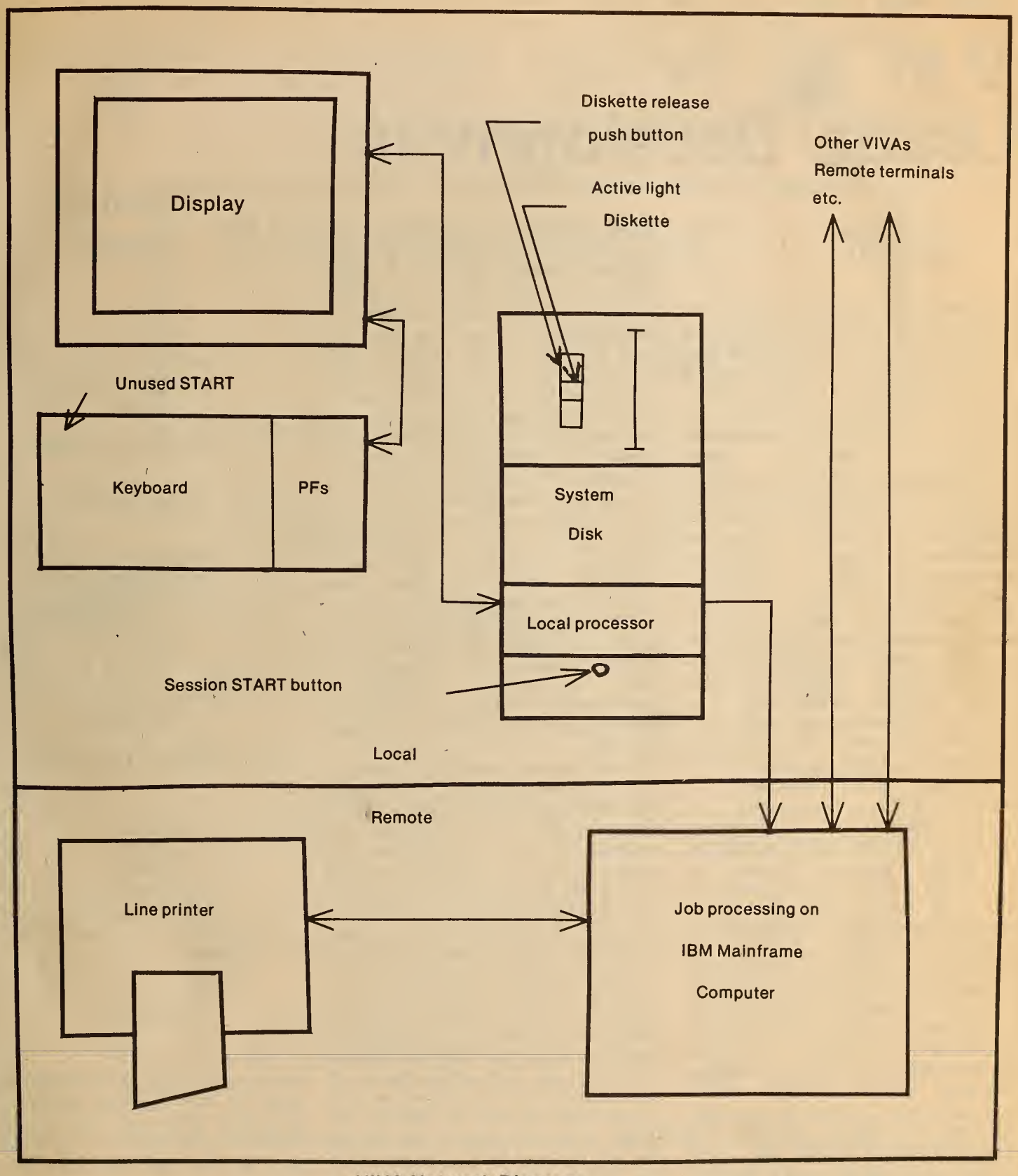
The change in hardware from IBM to DEC did not go unnoticed and this summer IBM donated a 3033 U mainframe to the University for three years after which it becomes property of the U of T. This much appreciated gift has cast the LIBRA program into limbo. Downtown undergrads will be running a form of the UNIX system on the IBM. This version of UNIX is not menu-oriented so one must issue separate commands for everything and not all of UNIX's file management and editing features are offered, furthermore this is strictly an edit/submit system. These limitations are expected to change with time. The biggest headache is the preparation of terminal sites. If the cables get installed here's how the undergraduate computing services shape up this fall:

VIVA - RIP (Resting in Pieces) - the system was dismantled this summer.

LIBRA - 12 terminals in ENGINEERING ANNEX, 28 each at Scarborough and Erindale.

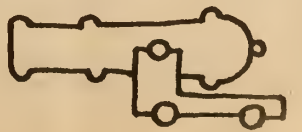
UNIX - 68 terminals in Robarts with 2 line printers.
- 50 terminals in ASUT (Arts and Science Undergraduate Terminal in Sidney Smith) with 2 line printers.
- 22 terminals in Victoria College with 1 line printer.

KEYPUNCHES - ENGINEERING ANNEX (37); Ramsey Wright (20).



VIVA Network Diagram

As you can see, this transition to video terminals is well underway - but not without its problems and overlap. The fact that the Engineering Annex is still mainly on keypunches might be a blessing in disguise. We might eventually get a system that works. Bear in mind, however, the unofficial motto of the Computer Systems Research Group - "If it works, it must be obsolete".



The author would like to thank Mario Rugglero and Tom Milligan of UTCS for their cooperation in writing this article. Further details may be obtained by contacting the University of Toronto Computing services in person at the Engineering Annex or at 978-4990 or 978-4991.

Testing For Toxic Fumes

U of T Leads Development

Mary Svasic
Chem 8T5

During the summer months, the University of Toronto's engineering faculty is as alive as ever, for the pace of research in the laboratory does not slow with the annual arrival of warm weather. In the Department of Chemical Engineering, technicians, graduate students and undergraduates hired for the summer are busy experimenting, calculating and makng discoveries under the supervision of professors. One such professor is Michael V. Sefton, the department's Associate Chairman. Under his watchful eye, many important and exciting projects are being carried out, including one which has already found commercial application. Dr. Sefton's passive strain length dossimeters, or personal monitoring devices for toxic gases, are being used in the industrial workplace to protect employees from exposure to dangerous levels of toxic gases.

The dosimeter was developed by Dr. Sefton in response to the need for a small, portable device, to constantly monitor worker exposure and give and instant readout. A hydrogen sulphide dosimeter is presently marketed, and one for carbon monoxide has recently been prefected. This summer has seen progress made towards the development of an ethylene oxide dosimeter. This gas is used predominantly in the chemical industry, but has also found application as a sterilant in hospitals. Concern has arisen for hospital workers exposed to the gas which may cause throat and eye irritations, headaches, respiratory problems and skin burns. Ethylene oxide is also suspected to be carcinogenic.

The underlying principles of dosimetry, as this new area of research is called, are quite simple. A small-diameter glass tube is used to contain a chemically-coated material which, when exposed to a particular gas, supports a chemical reaction. This reaction is characterized by a coloured stain which slowly lengthens as the gas diffuses down the tube. The oxidation of the ethylene oxide to formaldehyde by potassium dichromate in a sulphuric acid solution is the cause of the colour change in the ethylene oxide dosimeter, for the orange dichromate is reduced to green chromium III.

The length of the stain which apears in a dosimeter is related to the ambient concentration of the toxic gas in the atmosphere. Graduations in the tube enable exposure to be read directly. The Occupational Health and Safety Association is currently maintaining the time weighted average (TWA) for ethylene oxide at 50 ppm for eight hours of exposure. Thus, total exposure is limited to 400 ppm-hrs. However the TWA may soon be lowered to 5-10 ppm due to fears that ethylene oxide is more toxic than previously realized.

Although the principles are simple, the actual development of a useful dosimeter requires investigation of a large number of parameters and overcoming many obstacles. All experiments are geared towards producing the longest stain length and the sharpest stain front. When a reaction involving the gas and resulting in a colour change is found, a suitable support material for the reagents must be chosen. The best results for ethylene oxide have been obtained using narrow strips cut from flexible plastic sheets thinly coated with silica gel. The concentration of the reagents must be determined and a procedure devised for leading the reagents on the support and drying the wet material before placement in the tubes. Once the effects of temperature and humidity have been investigated and accounted for, membranes selected to filter out interfering gases, and reproducibility ensured, the dosimeter is carefully calibrated.

When what appears to be the optimum dosimeter has been designed, there remains one essential question: will it perform as well in the industrial workplace as it does in the confined space of a laboratory chamber? This problem, well known to engineers as "scaling up", is the last obstacle to be overcome.

The ethylene oxide dosimeter is still in the experimental stages and it may be some time before all the problems associated with it are solved. However, the successful development of hydrogen sulphide and carbon monoxide dosimeters indicates that Dr. Sefton will soon make another contribution to the field of occupational health.

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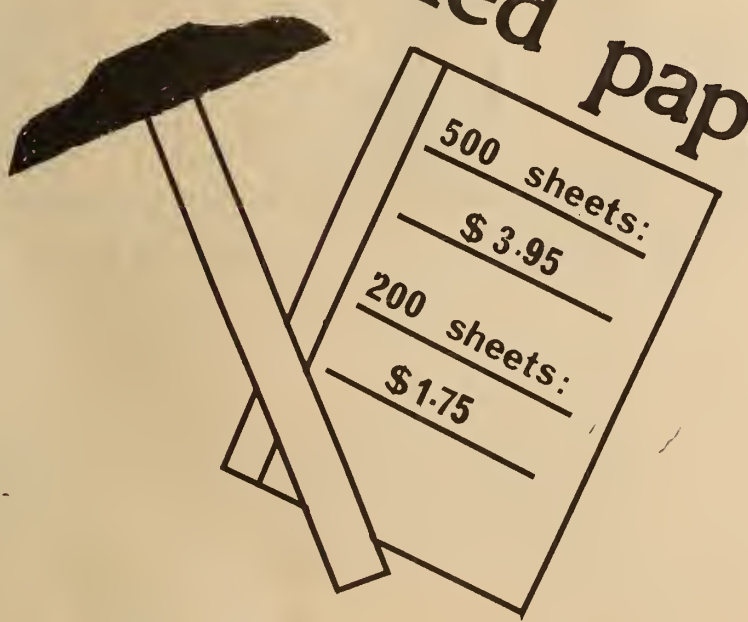

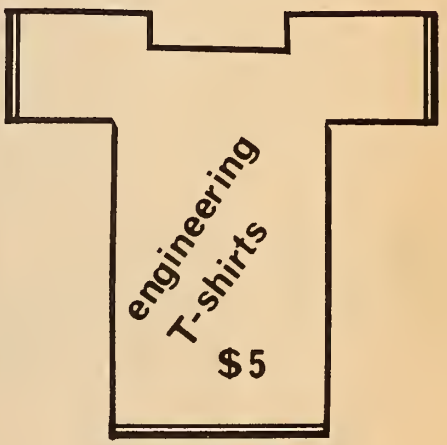

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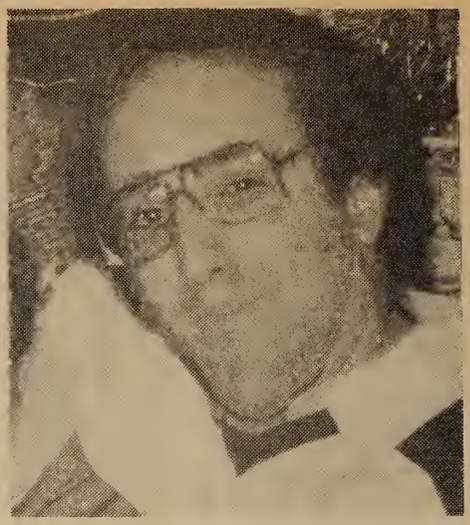
SEPTEMBER

Sunday	Monday	Tuesday	Wed
			1
5	6	7	8 *Monster (King's*
12 *Hart House Farm*	13	14 *Employment day 2p.m.-4p.m. Civ., Geo, Mech., Eng Sci, MMS*	15 *Employment 2p.m.-4p.m. Ind., Eng Sci*
19	20 *F!rosh & 2nd year Elections*	21 *Elections* con't	22 *Job Strategy 5p.m. Med Beer and*
26	27 *Eat Your Lunch Backwards*	28	29

sday	Thursday	Friday	Saturday
	2	**3** *Blues vs. Western*	**4**
. Meeting *e Night* *Game* *ge Circle)*	**9** *Rugby Tryout* *Intro. to Nursing* *Campus Tours and* *Talent Night*	**10** *Toilet Bowl Game and Parade* *Blue and White Orientation* *Fluid Dynamics Quiz* *Roam-a-round*	**11** *Scavenger Hunt and Picnic*
n., Elec. *ear only*	**16** *Women's Wine and Cheese*	**17**	**18** *Shinerama*
nar *ud.* *wiches* *ear only*	**23** *Council Meeting* *11th day of classes* *how is it going f!rosh*	**24**	**25** *Homecoming* *Blues vs. Windsor*
	30 *1 Down 7 To Go*		

President's Message



Wayne Levin
Eng. Soc. President

Welcome back! I hope that your summer was relaxing and enjoyable. Over the summer, your Engineering Society has been busy preparing for, what I think, will be a great year.

For those of you who do not know, we have moved. We are now located in the basement of the Sandford Fleming Building. The Engineering Stores may also be found there, conveniently located across from the cafeteria. Speaking of the cafeteria, Peter Weick, your V.P. — Activities has been busy planning for the Friday afternoon pubs. Look for them soon.

For this year be prepared for some changes. Indicative of this is the rebirth of the Toike Oike. Under the careful direction (?) of Peter Kurpis and Mark Mozel, the TOIKE will once again be a recurring reminder that Engineers are creative and possess (or are possessed by) a slightly deranged sense of humour.

I must extend my appreciation to the Engineering Society Executive. We are most fortunate to have a hardworking and dedicated group. Al Kasperski (otherwise known as dad), our Blue and Gold chairman, is already working at providing new events to help us get our minds off the grind. For instance, he is planning on running a couple of movie nights featuring, feature movies. Along the lines of more traditional events, Margie Bawden, who is our fourth year chairman and Bruce Christie our Social Committee chairman, are busy organizing for the Grad Ball and the Cannonball respectively. As I understand it, the Gradball will be at the downtown Holiday Inn and the cannonball will be held at the Inn on the Park. Of course any similarity between what I have just stated and what actually happens is purely coincidental. Bruce is also looking into the idea of running a Booze Cruise. You will be hearing more about that later.

Most of the other preparations have been centered around orientation. Since this paper will be out early in the year, there isn't a hell of alot that I could tell you now (at writing) that you will not know then (or now depending on how you look at it). I hope that you have a successful year. Further, I hope that your involvement with the Engineering Society will make 82/83 an enjoyable Year.

Call for 'Labatt's Blue'

Eng. Soc. News

Elections

On September 20 & 21 the Engineering Society will be holding elections for class representatives of the first and second year classes. For each class two representatives are chosen. One represents his class on the Faculty Council which is that body made up of staff and students that deals with questions of academia. The other student is the Eng. Soc. rep. This person sits only on the Engineering Society and keeps his class informed of all the great and wonderful goings-on of the Society. Both of these representatives must also join one of the many committees. It is these committees which organize such events as the Cannonball, Godiva Week, guest speakers, employment days, Homecoming and pubs. For those of you who are not interested in being a class representative but would like to work on one of these committees just come on in to the Eng. Soc. offices and sign up. Everyone is welcome.

Annual General Council Meeting

This is it, the first Engineering Society meeting of the year. All the new members will be sworn in and everyone will finally learn what has been planned over the summer to make this one of the greatest years engineers will see. Any student can go to these meetings - it could be a new experience. Be there on Sept. 23 at 5 p.m. in GB 202.

Shinerama

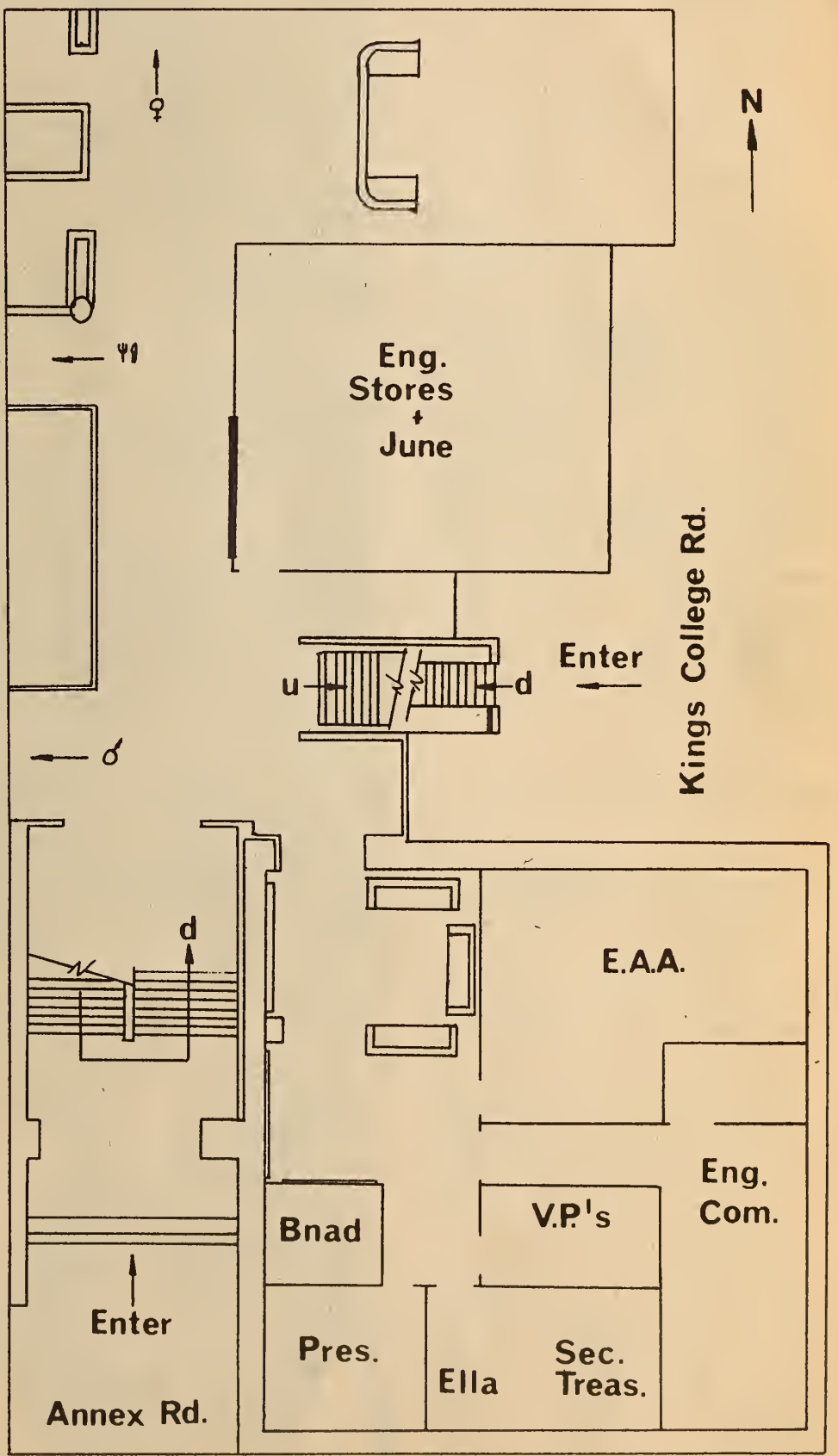
Everyone is expected to shine shoes for Cystic Fibrosis on Saturday, September 18.

Homecoming

Once again the Engineering Society is planning on entering a truly amaaaaazing work of art (?) for the Homecoming parade. On this day the U. of T. football Blues will be playing Windsor. But most importantly the Bnad will be there (more! more!).

Confusion!

The Eng. Soc. offices have moved to the basement of the Sandford Fleming building, along with the Stores. To help all you dumb SKULE types here is a map so you will know where to go when you need to bug Wayne (or you just want to chat with Ella or June):



Engineering Society Offices

The Executive

Judith Vosko
Eng Sci 8T4

Unbelievably enough, the summer has flown by and we once again search for things to do to try and forget about homework, problem sets, labs... Of course, the Engineering Society arranges enough varied events to keep all the men and women of Skule pretty busy. Who, you may ask, is responsble for all of these events and where should I go with suggestions? Every student has an Engineering Society class rep but there are also five elected executive officers who try to keep the whole show running smoothly. Every student, even frosh, should feel free to approach them with ideas or questions and just so you can recognize them, here's a short "biography" (including some words of 'wisdom' to the first years) and mug shot of each.

Wayne Levin, President

As in most organizations, the President is responsible for nothing in particular, but for everything in general. Primarily, the President coordinates the efforts of those under him. He is a voting member of all Standing and Special Committees of Council, and represents the Society on all sultable occasions. He is a member of the Council of Presidents at U of T (COPOUT) and of Faculty Council. In essence, the Buck stops here: Problems affecting the Society from within or without are the responsibility of the President.

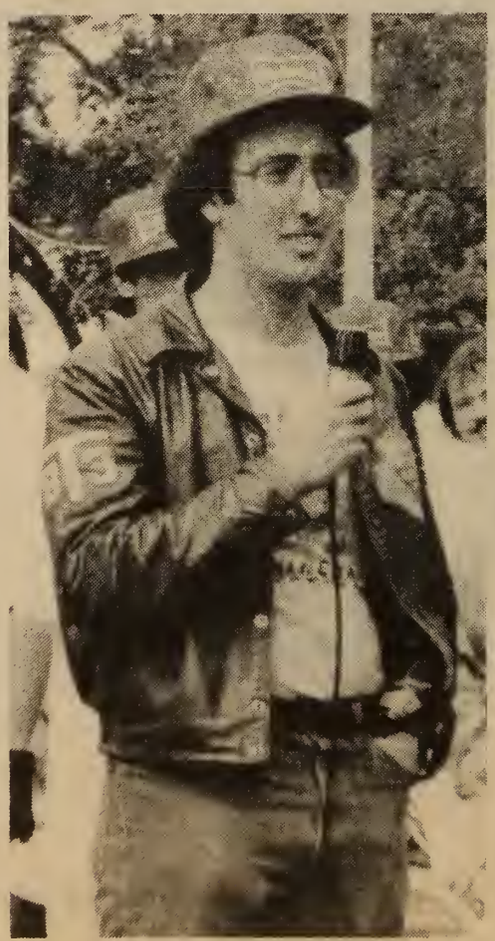
Wayne is a member of the Industrial Engineering class of 8T3. He has been involved in many Skule activities ever since he was a frosh. SKULE NITE has been one of his favourite pastimes. He has participated in both writing and acting for the past three years. His involvement last year with the OEDC and as chairman of the Social Committee has prepared him well for a busy upcoming year. Wayne's watch words are enthusiasm, participation and of course, fun which he hopes to see for all engineering students in 1982-83.

Peter Welck, Vice-president: Activities

The Vice-President: Activities coordinates the work of the Standing and Special Committees of Council, the Affiliates (the Engineering Athletic Association and the course clubs), and the Faculty Council reps, through the Executive Faculty Council rep (EFCR). He oversees "all cultural, technical, educational, athletic, and social activities of the Society".

'Skule Spirit is largely his department, and his work is most visible through events such as Orientation Week, Godiva Week, the Band, and the BFC. He is third in command, and is also a voting member of all Standing and Special committees of Council.

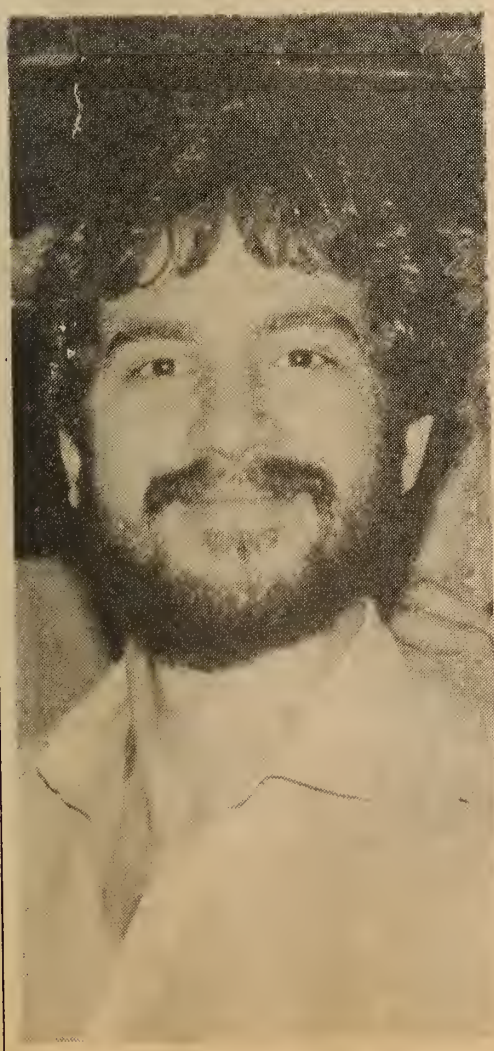
Peter will be graduating in the spring as a member of Mechanical Engineering 8T3. Since his arrival on campus, he has been a visible participant in a number of Skule events. In his first two years, he was seen on stage in SKULE NITE and intimidating opposing basketball players always with a cold brew nearby. Last year, he devoted his time to chairing the Blue and Gold Committee which put on a revitalized Godiva Week, co-ed broomball tournament and many lively pubs where you could always find Peter with a Bud in hand. In case you're wondering, Pete's main interest is beer.



Vince Volpe, Vice-President: Administration

The VicePresident: Administration is second in command and assumes the President's responsibilities in his temporary absence. He is responsible for all financial and business affairs of the Society, such as its insurance policies, its paid employees, and the Engineering Stores. In conjunction with the Treasurer and the Executive Committee, he prepares the Society's operating budget. The V.P.: Admin. is also a voting member of all the Committees of Council.

Vince is another graduating student, enrolled in Civil 8T3. He showed his Skule spirit starting in his first year when he worked on the f!rosh chariot. In his second year, he became involved in the Civil Club, a role which was continued in 1981-82. His other major project last year was to chair the Professional Development Committee and start a tradition of bringing interesting speakers from various facets of engineering to U of T for noon-time talks. Vince gives this advice to the new first year students: Study hard and play hard."



Andrew Alberti, Treasure

The Treasurer must keep the financial books of the society, in accordance with legal requirements. He is responsible for informing Council of its financial status, and must submit the Society's books for audit at the end of the fiscal year.

As long as he can juggle adeptly, Andrew will graduate in two years time as part of the Electrical class of 8t4. In his first year, he immediately got involved in the Engineering Society as a Faculty Council rep. last year. He also kept busy in 1981—82 as an Engineering representative on SAC and chaired the SAC elections committee later in the year. When he gets a chance, Andrew enjoys sailing and various activities at his fraternity. His advice to the f!rosh is to get involved in something on campus.

Debbie Fletcher, Secretary

The Secretary keeps the records of the Society, its minutes and archives. He is responsible for the business of Council, such as reserving Council Chambers for meetings, notifying members of meetings, and the like.

Debbie is a member of Mechanical Engineering 8T4. Her past activities have covered the wide spectrum from the Women's Varsity Skating team to assisting at last year's Ontario Engineering Design Competition.

AAAAAARGH

BNAD AD

THE
LADY GODIVA MEMORIAL
BAND

NEEDS UNIQUE NOT MUSICAL
SKULE MEN OR WOMEN
VISIT THEM NOW
AT THE ENG. SOC. OFFICES

Financial Statement

AUDITORS' REPORT

To the members of the
University of Toronto Engineering Society

We have examined the balance sheet of the University of Toronto Engineering Society as at February 28 1982 and the statements of income, accumulated surplus and store section operations for the eleven months then ended. Our examination was made in accordance with generally accepted auditing standards, and accordingly included such tests, and other procedures as we considered necessary in the circumstances, except as explained in the following paragraph.

Because of incomplete accounting controls over store section sales, our verification was limited to agreeing recorded sales to bank deposits. Activities, expenses, and revenues of some committee programmes are not fully documented in the regular accounts of the Society and as a result, we were unable to completely verify these accounts.

In our opinion, except for the effect of any adjustments which might have been required had we been able to adequately verify the Items referred to above, these financial statements present fairly the financial position of the Society as at February 28 1982 and the results of its operations for the eleven months then ended in accordance with accounting principles generally accepted for non-profit organizations applied on a basis consistent with that of the preceding year.

A Chodos & Company

Toronto, Ontario
March 23, 1982

UNIVERSITY OF TORONTO ENGINEERING SOCIETY
BALANCE SHEET
AS AT FEBRUARY 28, 1982

1982

	Society	Store	Total
ASSETS			
CURRENT ASSETS			
Cash	16,897	39,457	56,354
Accounts receivable	35,078	451	35,529
Inventory	-	77,068	77,068
Prepaid expenses	229	1,130	1, 359
	52,204	118,106	170,310
INVESTMENTS (Note 2)	5,619		5,619
FIXED ASSETS			
Office furniture and equipment - net (Accumulated depreciation: 1982-$7324; 1981-$6728)	2,657	1,444	4,101
	$60,480	$119,550	$180,030
LIABILITIES AND SURPLUS			
CURRENT LIABILITIES			
Accounts payable and accrued liabilities	38,798	54,360	93,158
GRADUATION BALL (Note3)	8,200		6,200
ACCUMULATED SURPLUS	15,482	65,190	80,672
The accompanying notes are an Integral part of these statements.	$60,480	$119,550	$180,030

Society	1981 Store	Total
7,110	37,112	44,222
13,517	2,983	16,500
-	60,594	60,594
2,488	1,507	3,995
23,115	102,196	
2,419		2,419
3,253		3,253
$28,787	$102,196	$130,983
15,255	47,067	62,322
2,641	-	2,641
10,891	55,129	66,020
$28,787	$102,196	$130,983

UNIVERSITY OF TORONTO ENGINEERING SOCIETY

STATEMENT OF ACCUMULATED SURPLUS

FOR THE ELEVEN MONTHS ENDED FEBRUARY 28, 1982

	1982	1981
BALANCE, BEGINNING OF PERIOD	66,020	46,966
NET INCOME FOR THE PERIOD	14,852	19,054
BALANCE, END OF PERIOD	$80,872	$66,020

UNIVERSITY OF TORONTO ENGINEERING SOCIETY

STATEMENT OF INCOME

FOR THE ELEVEN MONTHS ENDED FEBRUARY 28, 1982

	(Note 4) 1982	1981
REVENUES		
Fees	59,048	56,235
Interest on investment	658	3,184
Pinball income	2,036	2,533
Locker income	2,050	2,035
	63,792	63,987
Net income - store	11,012	20,713
	74,804	84,700
EXPENSES		
General (Schedule A)	22,813	24,404
Committee costs (Schedule B)	37,339	41,242
	60,152	65,646
NET INCOME FOR THE PERIOD	$14,652	$19,054

UNIVERSITY OF TORONTO ENGINEERING SOCIETY

SCHEDULE OF GENERAL EXPENSES

FOR THE ELEVEN MONTHS ENDED FEBRUARY 28, 1982

	1982	1981
Bad debts	140	124
Depreciation - office furniture and equipment	596	723
Executive	460	1,022
Gifts, donations and awards	1,778	3,231
Insurance	177	67
Interest and bank charges	278	189
Professional fees	5,552	4,456
Miscellaneous	555	279
Office salary and employee benefits	9,581	9,646
Postage	128	147
Printing and stationery	1,789	1,704
Repairs and alterations	395	427
Telephone	1,384	1,364
Loss on sale of type setting parts	-	1,025
	$22,813	$24,404

UNIVERSITY OF TORONTO ENGINEERING SOCIETY

SCHEDULE OF COMMITTEE COSTS

FOR THE ELEVEN MONTHS ENDED FEBRUARY 28, 1982

	1982	1981
COMMUNICATIONS		
Handbook	1,470	1,488
Yearbook	(3,726)	2,747
Toike Olke	3,915	1,323
Cannon paper	591	1,990
Calendar	489	2,749
Darkroom	657	386
	3,396	10,683
SOCIAL		
Pub		733
Cannon Ball	1,669	4,180
Car rally	33	142
Oktoberfest	3,180	378
	4,882	5,433
AFFILIATES		
Engineering Athletic Association	17,453	13,020
Club grants	2,351	2,640
	19,804	15,660
BLUE AND GOLD		
LGMB	579	440
Blue and Gold general	210	847
Godiva week		(161)
Homecoming	598	49
	1,387	1,175
FOURTH YEAR		
Graduation Ball	5,735	3,745
Kipling Ritual	1,808	1,600
	7,543	5,345
GENERAL		
Professional development	335	738
Women in Engineering	(250)	242
First year	6	220
Orientation		275
Skule Nite	229	1,181
Other	7	290
	327	2,946
	$37,339	$41,242

UNIVERSITY OF TORONTO ENGINEERING SOCIETY

STATEMENT OF STORE SECTION INCOME

FOR THE ELEVEN MONTHS ENDED FEBRUARY 28, 1982

	(Note 4) 1982			1981
	STORE	PHOTOCOPY	TOTAL	TOTAL
SALES	227,075	1,906	228,981	214,400
COST OF SALES				
Inventory, beginning of year	60,594		60,594	23,542
Purchases (including photo-copy rental)	214,487		214,487	211,924
	275,081		275,081	235,466
Inventory, end of year	77,068		77,068	60,594
	198,013		198,013	174,872
GROSS MARGIN	29,062	1,906	30,968	39,528
EXPENSES				
Professional fees			1,000	
Store salaries			14,866	14,883
Photocopy service and supplies			1,719	1,844
Bad debts			191	-
Insurance and maintenance			740	607
Advertising, stationery and miscellaneous			1,919	1,481
			20,435	18,815
			479	
			$11,012	$20,713

UNIVERSITY OF TORONTO ENGINEERING SOCIETY

Notes To Financial Statements

For The Eleven months Ended February 28, 1982

1. SUMMARY OF SIGNIFICANT ACCOUNTING POLICIES AND REPORTING PRACTICES

Cash:

Cash does not include amounts held on deposit for committee activities and affiliated clubs. These deposits are charged to committee expenses at the time the monies are advanced by the Society.

Inventory:

Inventory is valued at the lower of cost (as determined on a first-in, first-out basis) and net realizable value.

Investments:

The investments are recorded at cost. It is the Society's practice not to write down the carrying value of the investments to market as it intends to hold the investments until maturity.

Fixed Assets:

Office furniture and equipment is recorded at cost. This cost is being depreciated over the estimated useful lives of the assets on a declining balance basis of 20% per annum.

Statement of income:

The statement of income includes the revenues and expenses for all the activities of the school year. There are some activities and related expenditure that take place subsequent to the year end for which the Executive Council of the Society has approved.

The recognition of these expenses in the current accounting period is appropriate in that the elected Executive Council takes office mid-March and is responsible for the expenditures for which they have budgeted for the following school year.

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Jock Talk

Engineering Athletics

Lee Scott
E.A.A. Publicity Director

O.K. all you wild and crazy Eng Jocks it is time for you to start sweating again after an easy summer in the sun. The Engineering Athletic Association has been working hard all summer (Alright maybe just for the last two weeks — even they are human!!!) so that all YOU have to do is sign up!!

REMEMBER! Participation is the name of the game — last year men Eng Jocks won the T.A.Reed Award and the "fem" Eng Jocks won the Marie Parkes award for participation and excellence in interfaculty athletics. One of the first sports to start off the year is touch football. In order to enter a team all you have to do Is go to the Board Room in the Benson Building at 1p.m. on Wednesday, September 15 with a list of players and their student numbers (Do you know your student number!!) The games start on Monday September 20. The meeting for co-ed volleyball is at the same time and place on September 16. For men's sports look around for signs warning you of meetings and women should sign up in the washroom on the second floor of the Galbraith Building. For special information on Co-ed sports contact Colette Taylor (another dumb Mech!!) at 977-4532.

The E.A.A. has relocated, along with the Engineering Society, to that rabbit hole in the southeast corner of the basement of the SF building. It is highly likely that there will be someone there to answer any dumb questions you have whenever you get the urge.

Note: Those students who did not pick up their awards please get them in the Athletic Offices.

Specific questions you have could be directed to any of the following E.A.A. members:

President
Kathy Dumanski
Mech 8T3

Engineering Rugby

Men's Athletic Director
Greg Scott
Mech 8T3

Women's Athletic Director
Pam Selby
Ind 8T3

Publicity Director
Lee Scott
Mech 8T3

Secretary-Treasurer
Judith Vosko
Eng Sci 8T4

Director of Tournaments
Kevin Towers
Chem

Men's Acquatic Commissioner
Colin Doyle
Eng Sci 8T3

Men's Basketball Commissioner
Paul Sabo

Men's Hockey Commissioner
Chris Francis
Eng Sci 8T5

Men's Lacrosse Commissioner
Paul Blom
Mech 8T4

Men's Football Commissioner
Terry Jang
Elec 8T3

Men's Rugger Commissioner
Glyn Jones
Chem 8T4

Men's Soccer Commissioner
Mark Zyskowski
Chem 8T3

Men's Squash Commissioner
Richard Sewards
Eng Sci 8T3

Men's Volleyball Commissioner
OPEN

Women's Acquatics Commissioner
Margaret Gibbons
Eng Sci 8T4

Women's Basketball Commissioner
Liz Pelligrini
Chem 8T5

Women's Football Commissioner
Teri Morrison
Geo 8T5

Women's Hockey Commissioner
Karen Wright
Chem 8T3

Women's Volleyball Commissioner
Betty Dolinar
Geo 8T5

Women's Squash Commissioner
Michelle Bolhuis
Geo 8T5

Women's Soccer Commissioner
Jeanne Young
Eng Sci 8T3

Skiing Commissioner
Eugene Trussler
MMS 8T3

Co-ed Dommissioner
Colette Taylor
Mech 8T3

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2. INVESTMENTS:

	1982	1981
The Investments consist of the following:		
Guaranteed Investment Certificate 18.5% due August 18, 1983	3,200	—
Ontario Hydro Bond, 9% due February 1, 1995 (Market value: 1982 - $1563; 1981 - $1719)	2,419	2,419
	$5,619	$2,419

3. GRADUATION BALL:

A portion of the orientation fees is appropriated for the graduation ball. As at February 28, 1982, the amounts appropriated are set out as follows:

Graduating Class	Amount Appropriated
1984	3200
1985	3000
	$6200

Note: The Society has purchased a Guaranteed Investment Certificate in the amount of $3200 maturing August 18 1983 with an annual rate of interest of 18.25%. The investment will be renewed until the funds are required to pay for graduation ball expenses.
It is the intention of the Society to purchase another Guaranteed Investment Certificate in the amount of $3000.

4. CHANGE OF YEAR—END:

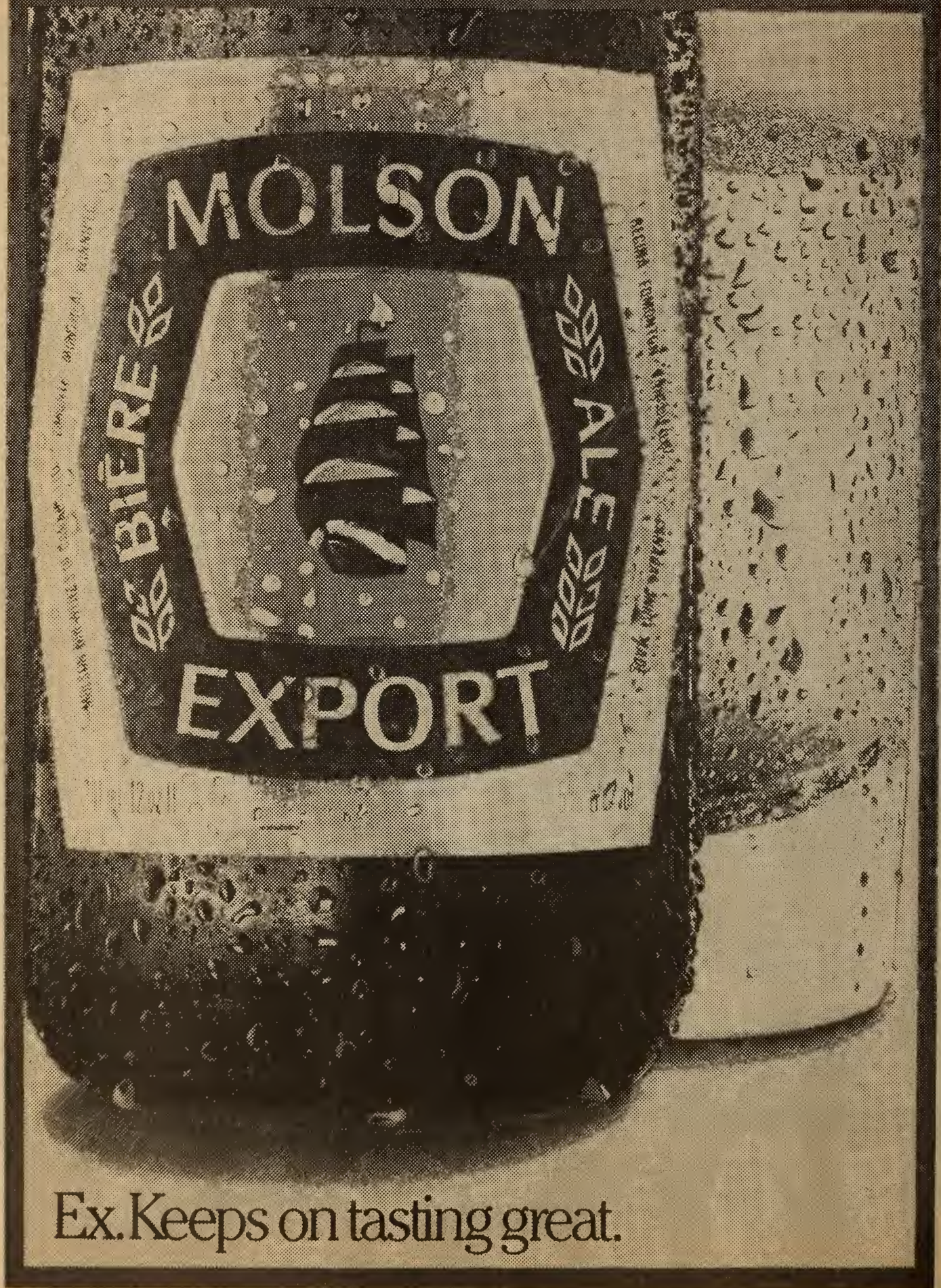
The Society has changed its year-end from March 31 to February 28, effective February 28, 1982.

5. COMPARATIVE FIGURES:
Certain figures of the prior year have been reclassified to conform to the presentation adopted in the current period.

6. SUBSEQUENT EVENT:

On March 1, 1982 all of the assets and liabilities of the unincorporated association known as the University of Toronto Engineering Society were transferred to a corporation without share capital. The corporation was incorporated under The Ontario Corporations Act and will carry on its operations using the name — The University of Toronto Engineering Society.

The good things never change.



Ex. Keeps on tasting great.